Secret



NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

imagery analysis report

Chinese Y-10 Aircraft Development 1970 — 1980 (S)

Secret

WNINTEL

Z-20013/81 IAR-0343/80 JANUARY 1981 Copy 170



S	Ε	C	R	E	Т	

25X1

CHINESE Y-10 AIRCRAFT DEVELOPMENT, 1970 — 1980 (S)

INTRODUCTION	
1. An indigenously designed civil air transport aircraft, designated Y-10, has been built by the Chinese. Development of this medium range, 120-passenger, four-engine jet aircraft began in the early 1970s as an attempt by China to produce a large transport aircraft from the ground up. It may have originally been intended for series production but has subsequently evolved into a large-scale test bed for Chinese engineers in aircraft development and production techniques. Prior to this time, the largest transport aircraft produced by China was the Soviet-designed AN-2 COLT.	25X
STATUS	
imagery at Shanghai/Dazhang Aircraft Repair Base it has been on the parking apron outside a large new hangar at the aircraft repair base, occasionally in	25X 25X
company with a Boeing 707 (Figure 1). This Y-10 aircraft (Figures 2 and 3) is apparently prototype number 2 and will reportedly be used for taxi tests and eventually test flown. Prototype number 1 was reportedly used for structural and systems testing in 1978. Apparently, only two prototype aircraft have been produced; the third (prototype number 3), which is probably the final aircraft, is still under construction at Shanghai/Dazhang Aircraft Repair Base.	25 X
DISTINGUISHING FEATURES	
3. (S/D) The Y-10 and Boeing 707 are quite similar in overall configuration; however, many external differences are especially noticeable when the two aircraft are seen in close proximity. The Y-10 is slightly smaller than the 707 (Table 1). The Y-10 wing is significantly different from that of the 707; the Y-10 has less wing-sweep, less overall wing area, and the trailing-edge plan form is more sharply angled than that of the 707. The cockpit/nose area is shaped differently from that of	

(Figure 3). Both aircraft use the same powerplant—the Pratt & Whitney JT3D turbofan engine. These engines were originally purchased as spares for China's 707 fleet in 1972-73.

the 707 and should offer enhanced visibility (Figure 2).1

- 1 -SECRET

Sanitized Copy Approved for Release 2010/11/04 : CIA-RDP81T00380R000100720001-3 SECRET

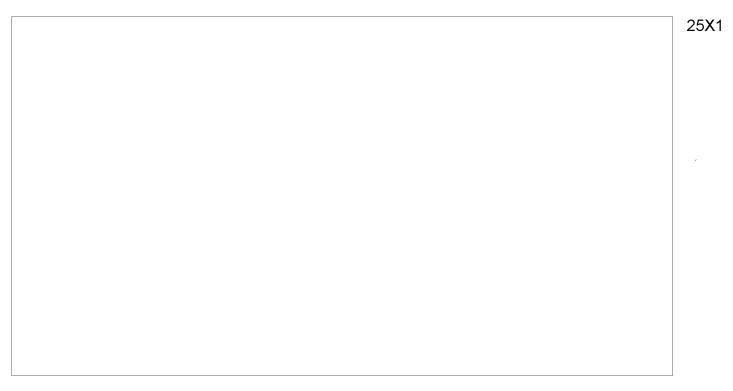


Table 1. Comparison of Dimensions of Y-10 and Boeing 707

This table in its entirety is classified SECRET/WNINTEL

	Y-10 Boeing 707 (meters, except where indicated)		
Wingspan			
Wing cord at root			
Wing cord at tip			
Length overall			
Length of fuselage			
Height overall			
Tailplane span			
Wing sweep			
Tail sweep			
Vertical stabilizer sweep			
Tail cord root			
Tail cord tip			
Nose to leading edge of wing			
Engine diameter			
Engine extension from leading edge of wing			

^{*}Dimension given in degrees.

25X1

SECRET



FIGURE 2. FULL SIDE VIEW, Y-10 PROTOTYPE NUMBER 2, SHANGHAI/DAZHANG AIRCRAFT REPAIR BASE

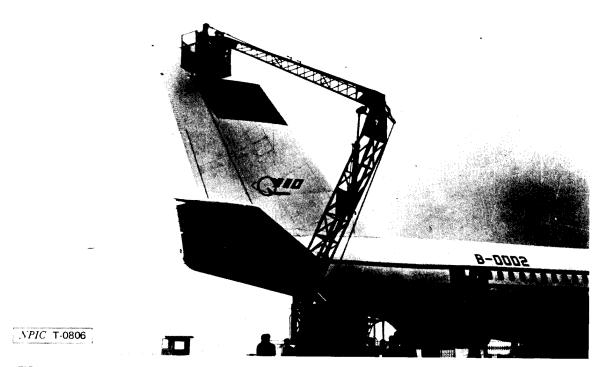


FIGURE 3. TAIL SECTION OF Y-10 PROTOTYPE NUMBER 2, SHANGHAI/DAZHANG AIRCRAFT REPAIR BASE

Sanitized Copy Approved for Release 2010/11/04 : CIA-RDP81T00380R000100720001-3 SECRET

REFERENCES

IMAGERY

(S/D) All applicable satellite imagery aquired from the preparation of this report.	was used in	25 X 1	
SMALL-FORMAT IMAGERY USDAO. IR 6814-0114-80, <i>The YC-10</i> , 27 Jun 80 (CONFIDENTIAL		25 X 1	
DOCUMENTS 1. DIA. IR 6-842-0293-80, Y-10, The Real Skinny (U), 8 Jun 80 (CONFIDENTIAL			
(S) Comments and queries regarding this report are welcome. They may be directed to Asian Forces Division, Imagery Exploitation Group, NPIC,		25X1 25X1 25X1	

Secret

Secret